CHUMAKOV, V.P.

AUTHOR: Chumakov, V. P.

119-1-7/13

TITLE: The Determination of Tension Forces Occuring in the Winding of Wires (Opredeleniye sily natyazheniya provoloki pri yeye namatyvanii)

PERIODICAL: Priborostroyeniye, 1958, Nr 1, pp. 21-24 (USSR)

ABSTRACT: A method of calculation is developed with which the tension necessary for winding can be determined in the quickest possible and sufficiently exact way. On these forces depend the winding velocity as well as the quality of the winding. The calculation was made for the following three cases:

a) When the sum of deformations originating from the wire extension does not exceed the range of elasticity. This occurs in the winding of highly elastic wires of a great relative radius:

$$R_{rel} = \frac{D+d}{d} > 100$$

D = diameter of coil
d = diameter of wire

b) When a comparatively great plastic deformation occurs in the wire to be wound.

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The Determination of Tension Forces Occuring in the Winding of Wires 119-1-7/13

c) When a very stiff wire is wound which before breaking has only a comparatively small extension.

These three cases are theoretically dealt with and families of curves are given. It is of interest that the calculations of force P at the limit of the transitions between the separate cases agree very well. There are 5 figures and 4 references, all of which are Slavic.

AVAILABLE: Library of Congress

1. Wire winding machines-Tension-Mathematical analysis

Card 2/2

25(1)
AUTHOR: Chumakov, V.P. SOV/159-58-3-31/31

TITLE: The Change of Wire Tension When Passing Thru the Guide Apparatus of Machine Tools

PERIODICAL: Nauchnyye doklady vysshey shkoly, Mashinostroyeniye i priborostroyeniye, 1958, Nr 3, pp 219-230 (USSR)

ABSTRACT: Winding, braiding and enamelling operations are extensively used when processing wire in instrument building. During these operations, the wire must pass thru different guide apparatus of machine tools. Thereby, it is important to know which forces must be used for overcoming the resistances of the guide apparatus and the change of wire tension in the latter. A tension change may influence the wire quality and may cause an inadmissable stretching. Consequently, the resistance of the wire is increased and its insulation is damaged. Without taking into consideration the wire tension changes, it is not possible to plan and calculate properly tension regulating and wire pulling devices of such machine tools. In this article, the author

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determines the magnitude of the work spent for overcoming the resistance of the wire when passing thru the guide apparatus of machine tools. The author also presents a calculation method for determining the change of the wire tension forces. First, the author considers the passage of wire thru guide rollers. He determines the work spent for overcoming the sliding friction forces of the wire on a roller, the work spent for the elastic hysteresis and for overcoming the friction at the roller support. He established that the passage of a wire thru a roller is connected with a change of potential energy. Then, formulae are presented for the work spent on plastic deformations of a wire. Finally, the author discusses the passage of wire thru stationary parts of machine tools. The calculation method presented by the author provides a possibility of determining the changes of the wire stress forces and the resistances when a wire passes thru the guide apparatus of a machine tool.

The Change of Wire Tension When Passing Thru the Guide Apparatus of Machine Tools SOV/159-58-3-31/31

The method may be used by instrument building plants, electrical machine building plants, cable plants and by various other industries. There are 3 diagrams, 4 graphs and 11 Soviet references.

This article was presented by the Kafedra "Tekhnologiya priborostroyeniya" Moskovskogo aviatsionnogo tekhnologicheskogo instituta (Chair "Technology of Instrument Building" of the Moscow Technological Aviation Institute)

SUBMITTED: February 24, 1958

Card 3/3

USCOMM-DC-61,231

AUTHOR: Chumakov, V. P. SOV/32-24-1o-22/7o

TITLE: The Improvement of the Accuracy in Measuring an Ohmic Resistance (Povysheniye tochnosti izmereniya omicheskogo soprotivleniya)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 1o, pp 1228 - 1229 (USSR)

ABSTRACT: The methods and devices usually employed for the measurement of the ohmic resistance of a wire 1 m in length are not always a sufficiently precise and effective control. In the work reported here a device for these determinations was constructed; its sketch and mode of operation are given. Changes in resistance in coils and single wire samples can be measured. By application of the Thomson bridge the errors $\Delta_1 R$ and $\Delta_2 R$ are excluded from the measurement; by the vertical position of the wire sagging is avoided. A change in the stress on the wire influences the accuracy of the measurement of the ohmic resistance. A graph represents the alteration of the ohmic resistance of a platinum-iridium (diameter

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0,04-0,05 mm) and of a nickel-chromium wire (diameter 0,04-0,08 mm) as a function of the tension σ. There are 2 figures.

SOV/110-59-4-14/23

AUTHOR: Chumakov, V.P. (Candidate of Technical Sciences)

TITLE: Variations in the Resistance of Wires and the Influence of Errors in Frame Manufacture on the Accuracy of Windings (O kolebaniyakh soprotivleniya provoloki i vliyaniya pogreshnostey izgotovleniya karkasov na tochnost' namotok)

PERIODICAL: Vestnik Elektropromyshlennosti,1959,Nr 4,pp 48-51(USSR)

ABSTRACT: This article gives data about variations in the resistance of metre lengths of various types of resistance wire. Generally speaking, variations of specific resistance of the alloys used are within the limits permitted by the appropriate standards. The variations in resistance of wire, that are the cause of considerable difficulties in manufacturing the resistances for instruments, seem to result mainly from variations in diameter. Part of the results obtained from measurements of metre length samples of wires from various deliveries are given in Tables 1 and 2; the tables also include variations in resistance permitted by the appropriate standards. On comparing the results for nichrome wire with standard GOST 2238-55 and for constantan wire with standard GOST 5307-50, it is seen that in both cases, for fine wires up to about 0.03 mm

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Variations in the Resistance of Wires and the Influence of Errors in Frame Manufacture on the Accuracy of Windings

diameter for nichrome or 0.09 mm diameter for constantan, the observed variations of resistance are greater than are permitted and it is concluded that the standards should be tightened up for these gauges. Methods of manufacture of the finer gauges should be improved. At the present time instrument manufacturers resort to groupings of deliveries according to the resistance of test pieces. Variations in resistance of the finished coils also result from variations in former size that result from variable shrinkage of plastics during moulding or from tool inaccuracies. Formulae are given for the errors in resistance that can result from variations in frame size.

Card 2/2 There are 2 figures and 2 tables.

CHUMAKOV, V.P., kand.tekhn.nauk, dotsent; KOMNOV, V.A., inzh.

Analyzing the performance of the forced drive of a driven coil in the SNP machine for winding potentiometers on flat spools. [Trudy] MVTU no.105:131-140 '61. (MIRA 15:4)
(Winding machines—Testing)

CHUMAKOV, V.P., kand.tekhn.nauk, dotsent

Theoretical investigation of stresses during the winding. [Trudy] MVTU no.105:120-130 '61. (MIRA 15:4)
(Winding machines--Testing)

CHUMAKOV, V.P., kand.tekhn.nauk, dotsent

Establishing norms for winding operations in the manufacture of instruments. [Trudy] MVTU no.105:141-150 '61. (MIRA 15:4)
(Winding machines--Production standards)

BELEVTSEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk; GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand.tekhn. nauk [deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N., prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENBERG, A.G., tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye., kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk; SYROVATCHENKO, P.V., kand. tekhn.nauk; TISHCHENKO, O.F., doktor tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; CHUMAKOV, V.P., kand. tekhn. nauk; SHAL'NOV, V.A., kand. tekhn.nauk; SHISHKIN, V.A., kand. tekhn.nauk; YUZHNYY, I.I., inzh.; BLAGOSKLONOVA, N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manual for engineers in the instrument industry]Spravochnik tekhnologa-priborostroitelia. Pod red. A.N.Malova. Moskva, Mashgiz, 1962. 988 p. (MIRA 16:2)
(Instrument manufacture)

CHUMAKOV, V.P.; BAZHINOV, A.G.; ZVYAGIN, I.V.

Testing the sterilizing action of beta-propiolactone in the preparation of biological products. Veterinariia 41 no.11: 23-24 N '64. (MIRA 18:11)

1. Vsesoyuznyy trest biologicheskoy promyshlennosti Ministerstva sel'skogo khozyaystva SSSR.

CHUMAKOV, V.P., kand.tekhn.nauk

Bondary conditions for permissible tension stresses in wire during the winding of electric units. Priborostroenie no.6:15-16 Je '65. (MIRA 18:7)

ACC NR: AT6034775 (A) SOURCE CODE: UR/3135/65/000/003/0099/0104

AUTHOR: Chumanov, V. P.

ORG: NVII

TITLE: Some design peculiarities of open distributors for 35--110 kV under conditions of the Far North

SOURCE: Noril'sk. Vechernyy industrial'nyy institut. Trudy, no. 3, 1965. Fiziko-elektrotekhnicheskiy vypusk (Physics and electrical engineering), 99-104

TOPIC TAGS: electric distribution equipment, climatic condition, snow, wind, high power switch / RU-110 electric distribution equipment, MG-110 high power switch

ABSTRACT: Experience in designing open distributors for 35--110 kV for the step-down substations of the Noril'sk Power System is summarized. The climatic conditions of the region are: prolonged, severe winter with heavy (to -51C) frosts and strong winds (to 40--45 m/sec), snowstorms and blizzards with snow drifts reaching 3--5 m. It was found that open distributors for 35--110 kV (equipped with simplified circuits with short-circuiters and dividers) are entirely suitable under conditions in Zapolyar'. Open distributors for 35--110 kV with oil-filled switches can be used only when they are protected from snow drifts. In designing open distributors, particular attention should be given to protection from snow drifts and to ensuring maximum access for snow clearing. Orig. art. has: 2 photographs.

SUB CODE: 09/ SUBM DATE: 15Mar64

Card 1/1

CHUMAKOV, V.F.; BAZHINOV, A.G.; ZVYAGIN, I.V.

Use of β-propiolactone in the production of veterinary biological preparations. Veterinariia 41 no.2:26-27 F '65.

(MIRA 18:3)

1. Vsesoyuznyy trest biologicheskoy promyshlennosti Ministerstva sel'skogo khozyaystva SSSR.

CHUMAKOV, V.S., gornyy inzhener

Increasing the precision of directional boring of coal chutes in mining Kuznetsk Basin thick steeply pitching seams by the shield method. Ugol' 35 no. 4:20-24 Ap '60. (MIRA 14:4)
(Kuznetsk Basin—Coal mines and mining) (Boring)

CHUMAKOV, YA. I.

"Forms of Phosphorous Fertilizers and Technique of Introducing Superphosphate Into Gray Soils Under Cotton Plants." Thesis for degree of Dr. Agricultural Sci. Sub. 29 March 50. Soil Inst. imeni V. V. Doluchayev, Acad. Sci. USSR

Summary 71, 4 Sept. 52. Dissertations Presented for Degrees in Sciences and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec. 1950.

ANGENITSKAYA, R., inzh.; CHUMAKOV, Ye., inzh.; BUSHUYEV, I., inzh.

Simplified rapid method of determining the frost resistance of building materials. Stroi. mat. 4 no.12:36-37 D '58. (MIRA 11:12)

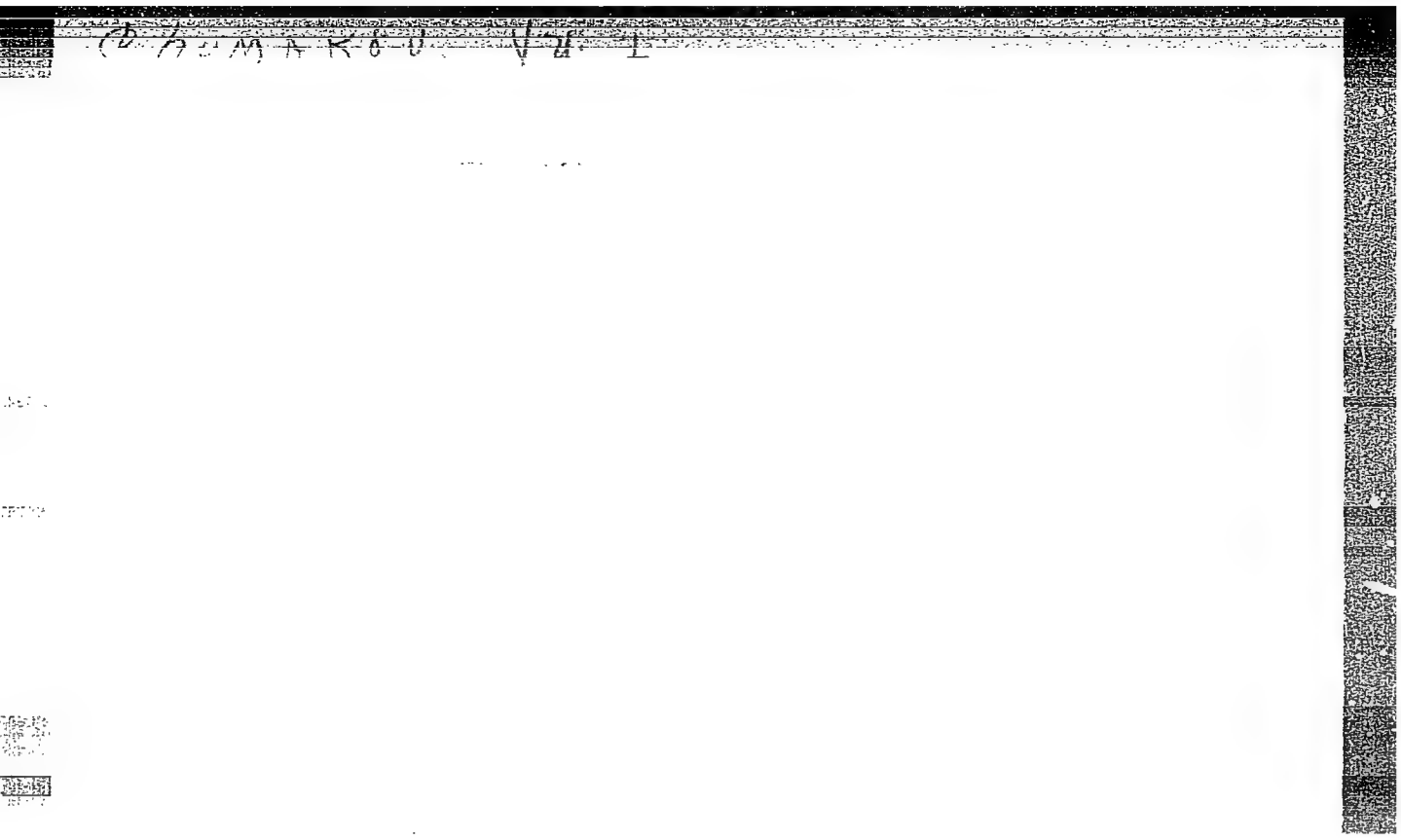
(Building materials--Testing)

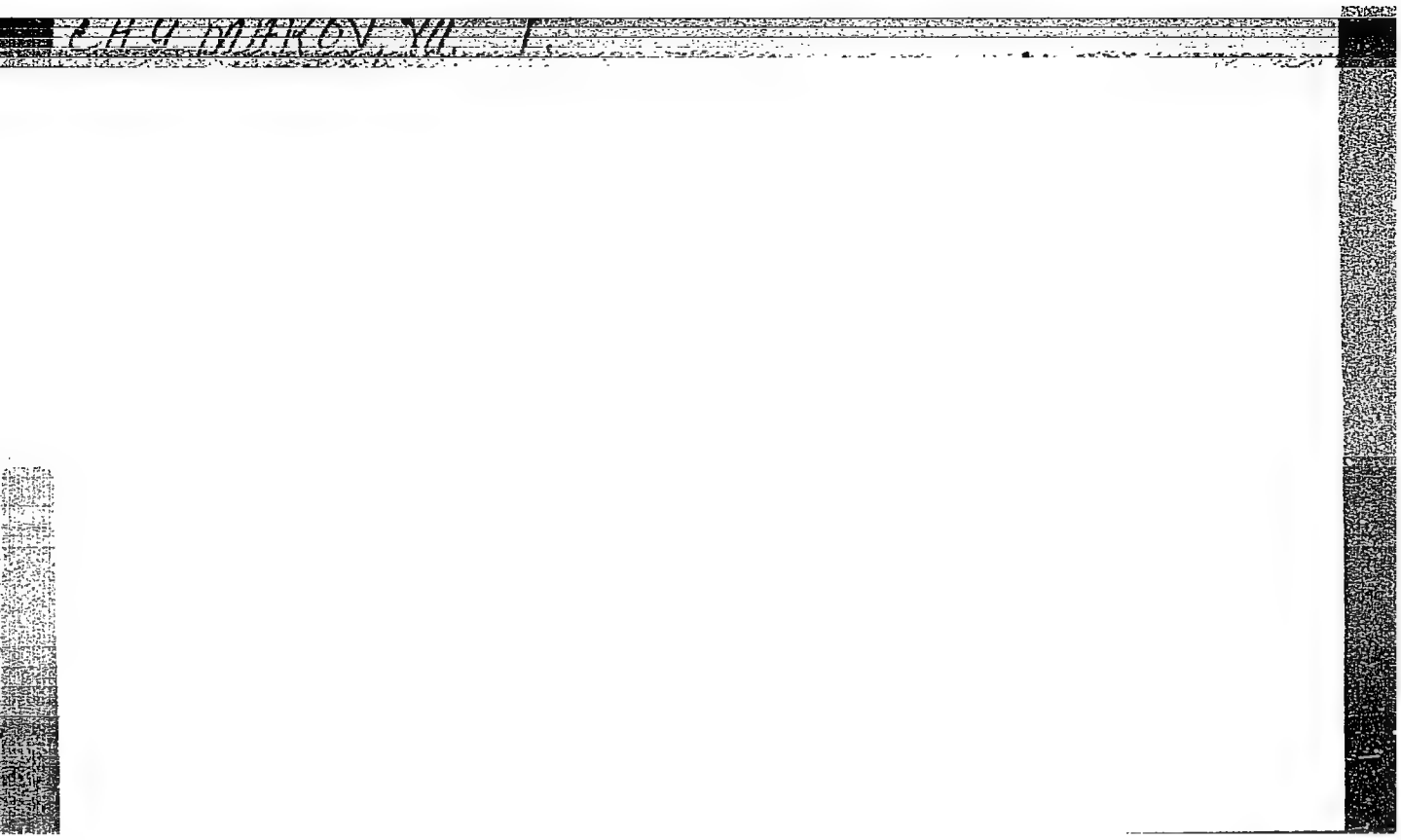
CHUMAKOV, Ye. I.

Agriculture - Study and Teaching

Familiarizing pupils with facts from agricultural practices. Est. v shkole No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.





CHUMAKOV, Yu.I.

Studies on the synthesis, separation, and analysis of pyridine bases Report No.1: Separation of the β-picoline fraction and production of nicotinic and isonicotinic acids. Med.prom. 12 no.12:13-18 D'58 (MIRA 11:12)

1. Khimiko-farmatsevticheskiy zavod "Akrikhin.".
(PICOLINE)
(NICOTINIC ACID)

CHUMAKOV, Yu. I., Candidate Chem Sci (diss) -- "Investigation of the breakdown of pyridine bases". Moscow, 1959. 9 pp (Chem-Pharmaceut Plant 'Akrikhin', Acad Sci USSR, Inst of Organoelemental Compounds), 150 copies (KL, No 24, 1959, 129)

CHUMAKOV, Yu.I.

Studies on the synthesis, separation, and analysis of pyridine bases. Report no.2: Accelerated method for the determination of 3-methylpyridine and 2,6-dimethylpyridine when they are both present. Med.prom. 13 no.1:14-17 Ja '59. (MIRA 12:10)

1. Khimiko-farmatsevticheskiy zavod "Akrikhin."
(PYRIDINE)

GANGRSKIY, P.A.; CHVYREVA, Ye.G.; CHUMAKOV, Yu.I.

Studies in the synthesis, separation, and analysis of pyridine bases. Report No.3: Extraction of isonicotinic acid from α β-pikoline fraction. Med.prom. 13 no.3:13-15 Mr '59. (MIRA 12:5)

1. Khimiko-farmatsevticheskiy zavod "Akrikhin."
(PYRIDINE) (ISONICOTINIC ACID)

CHUMAKOV, Yu.I.

Investigation in the field of the division of pyridine bases. Med.prom. 13 no.11:64 N '59. (MIRA 13:3)

(PYRIDINE BASES)

GANGRSKIY, P.A.; CHUMAKOV, Yu.I.

Obtaining nicotinic acid from the β-picolinic fraction. Med.prom. 13 no.12:16-18 D '59. (MIRA 13:4)

1. Khimiko-farmatsevticheskiy zavod "Akrikhin."
(NICOTINIC ACID) (PYRIDINE)

CHUMAKOV, Yu.I., kand.khim.nauk

Famous Soviet chemist. Nauka i zhyttia 11 no.2:39-40 F '61.
(MIRA 14:3)
(Zelinskii, Nikolai Dmitrievich, 1861-1953)

CHUMAKOV, Yu.I.; MEDNIKOV, A.I.; VIRNIK, R.I.

Preparation of nicotinic acid from nicotine. Zhur.prikl.khim. 35 no.3:602-605 Mr '62. (MIRA 15:4)
(Nicotine) (Nicotinic acid)

CHUMAKOV, Yu.I.; KORSAKOVA, Z.M.

2-Pyridyl acetate (2-acetoxypyridine). Metod.poluch.khim.reak.i prepar. no.4/5:65-66 '62. (MIRA 17:4)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

CHUMAKOV, Yu.I.

Particular methods of work with the derivatives of pyridine. Metod.poluch.khim.reak. i prepar. no.7:27-30 '63.

2-Methylpyridine. Ibid.:30-33

2-Ethylpyridine. Ibid.:33-35

N-oxides of alkyl pyridines. Ibid.:58-60

3-Pyridinesulfonic acid. Ibid.:86-88 (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; KORSAKOVA, Z.M.

2-Tert-butylpyridine. Metod.poluch.khim.reak. i prepar. no.7: 35-38 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; LEDOVSKIKH, V.M.

2- And 3-(3'-pentenyl)pyridines. Metod.poluch.khim.reak.i prepar. no.7:38-41 '63.

2-, 3- and 4-(3'-phenylpropyl)pyridines. Ibid.:46-49 (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; LUGOVSKOY, E.V.

Mixture of isomeric phenylpyridines. Metod.poluch.khim.reak. i prepar. no.7:41-44 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; SHAPOVALOVA, Yu.P.; LEDOVSKIKH, V.M.

2- and 4-(2'-phenylethyl)pyridines. Metod.poluch.khim.reak. i prepar., no.7:44-46 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.

3-Methylpyridine (β-picoline). Metod.poluch.khim.reak.i prepar. no.4/5:44-49 '62.

4-Methylpyridine (γ-picoline). Ibid.:50-55

2,6-Dimethylpyridine (2,6-lutidine). Ibid.:55-59

Pyridine N-oxide (pyridine-N-oxide). Ibid.:59-62

2-Hydroxypyridine (α-pyridone). Ibid.:62-64

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

CHUMAKOV, Yu.I.; VASIL'YEVA, Z.P.

Iosquinoline. Metod.poluch.khim.reak. i prepar. no.7:49-55 '63.
(MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; LEDOVSKIKH, V.M.; LOKHOV, R.Ye.; RALKO, V.A.

1,3-di-(2-pyridyl)propane. Metod.poluch.khim.reak. i prepar. no.7: 56-57 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; STOLYAROV, Z.Ye.; SHAPOVALOVA, Yu.P.

a-Acetoxyalkyl pyridines. Metod poluch.khim.reak. i prepar. no.7:61-65 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; STOLYAROV, Z.Ye.

2-Hydroxymethylpyridines. Metod.poluch.khim.reak. i prepar. no.7: 65-69 '63.

Diacetoxymethylpyridines. Ibid.:69-72

2-Pyridinealdehyde. Ibid.:72-74 (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; Prinimali uchastiye: ZHIGACH, T.K.; NEKHAYEVA, N.G.; CHVYREVA, Ye.G.; ISKOVSKIKH, N.G.

Pyridinecarboxylic acids. Metod.poluch.khim.reak. i prepar. no.7:74-79 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; RUSAKOVA, L.A.; MEDNIKOV, A.I.; VIRNIK, R.I.

Nicotinic acid. Metod.poluch.khim.reak. i prepar. no.7:79-82 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; CHVYREVA, Ye.G.; GANGRSKIY, P.A.

Isonicotinic acid. Metod.poluch.khim.reak. i prepar. no.7:82-85 '63. (MIRA 17:4)

1. Kiyevskiy politekhnicheskiy institut i Moskovskiy khimiko-farmatsevticheskiy zavod "Arikhin".

CHUMAKOV, Yu.I.; MARTYNOVA, E.N.; ZINOV'YEVA, L.M.; KHIMCHENKO, T.V.

2,6-Dialkoxy-3-(1'-alkoxyalkyl)tetrahydropyrans and alkyl pyridines based oh them. Zhur. ob. khim. 34 no.10:3511 O '64.
(MIRA 17:11)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; LUGOVSKAYA, L.P.

New synthesis of 4-phenylpyridine. Zhur. ob. khim. 34 no.10: 3515-3516 O '64. (MIRA 17:11)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, Yu.I.; Prinimala uchastiye: MAKAROVA, L.N.

3-Aminopyridine. Metod. poluch. khim. reak. i prepar. no.11: 19-21 '64. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted April, 1964.

CHUKANOV, Yu.I.; Prinimala uchastiye: MURZINOVA, Z.N.

3-Benzylpyridine. Metod. poluch. khim. reak. i preparov. no.11: 35-36 '64. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted April 1, 1964.

CHUVAKOV, Yu.I.; SHAPOVALOVA, Yu.P.

4-Vinylpyridine. Metod. poluch. khim. reak. i prepar. no.11:43-45 '64. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted April, 1964.

CHUMAKOV, Yu.I.; MURZINOVA, Z.N.

Cetyl pyridinium chloride. Metod. poluch. khim. reak. i prepar. no.11:105-107. '64. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted April 1964.

CHUMAKOV, Yuriy Ivanovich, kand. khim. nauk; SOLODUSHENKOV, S.N., kan . khim. nauk, retsenzent

[Pyridine bases] Piridinovye osnovaniia. Kiev, Tekhnika, 1965. 190 p. (MIRA 18:12)

CHUMAKOV, Yu.I.; FILIPPOVICH, M.N.

Separation of quinoline and isoquinoline mixtures by chromatography. Zhur. anal. khim. 20 no.8:856-859 '65.
(MIRA 18:10)

1. Kiyevskiy politekhnicheskiy institut.

L 07465-65 EWT(m)/EPF(c)/EWP(j)/T/ WA(c) Pr-4/Pr-4

ACCESSION NR: AP5013776

AUTHOR: Chumakov, Yu.I.; Shapovalova, Yu.P.

TITLE: New synthesis of 2- and 4-vinylpyridines

SOURCE: Zhurnal organicheskoy khimii, v. 1, no. 5, 1965, 940-942

TOPIC TAGS: thermal separation, synthesis, vinylpyridine, acetic acid, acetic acid separation, alpha acetoxyalkyl pyridine, new synthesis, acetic anhydride, N oxide, vinyl pyridine synthesis

ABSTRACT: The new synthesis of 2- and 4-vinylpyridines is based on thermal separation of acetic acid from 2- or 4-(α-acetoxyalkyl)pyridines at 500-600 C in accordance with a scheme shown in the Enclosure. The method seems to be of a general [illegible] and makes it possible to obtain various 2- and 4-vinylpyridines. It is particularly [illegible] for the production of 4-vinylpyridine [illegible] the production of higher 2- and 4-alkenylpyridines. The vinylpyridines obtained by this method are free from original alkylpyridines and can be easily recovered in a high degree of purity. Orig. art. has [illegible]

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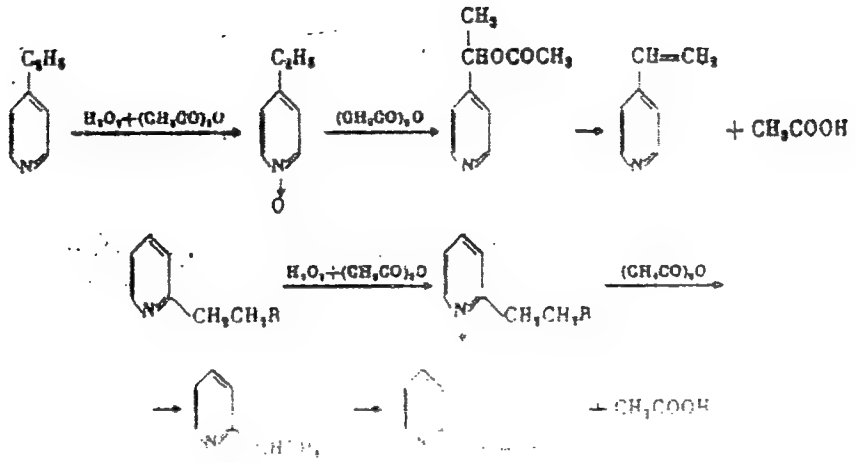
[illegible]-65
ACCESSION NR: AP5015776

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

L 57465-65

ACCESSION NR: AP5013776

ENCLOSURE: 01



CHUMAKOV, Yu.I.; SHERSTYUK, V.P.; DZYGUN, Ye.P.

Synthesis of mono- and dialkylpyridines substituted in the positions 3,4, and 5. Ukr. khim. zhur. 31 no.6:597-600 '65. (MIRA 18:7)

1. Kiyevskiy politekhnicheskiy institut.

CHUMAKOV, YU. I.

L 47223-65 EPF(c)/EWP(j)/EWT(m)/EWP(b)/T/EWA(d)/EWP(t) Pc-4/Pr-4 RM/JD/WB

ACCESSION NR: AP5010896 UR/0286/65/000/007/0085/0085

AUTHOR: Antropov, L. I.; Vrzhosek, G. G.; Pogrebova, I. S.; Dremova, G. I.; [illegible], T. V.; Chumakov, Yu. I.

TITLE: A method for protecting metals from corrosion by acids. Class 22, No. 169725

SOURCE: Byulleten' izobretenly i tovarnykh znakov, no. 7, 1965, 85

TOPIC TAGS: corrosion preventative, acid etching, inhibitor, hydroxipyridine, monomethylthiourea

ABSTRACT: This Author Certificate presents a method for protecting metals from corrosion by acids in the process of etching. The method involves introducing an inhibitor into the etching solution. To broaden the assortment of materials, chlor-N-alkylate-3-hydroxipyridine (especially chlor-N-decilate-3-hydroxipyridine) with 6-16 carbon atoms in the alkyl radical is used as the inhibitor. Monomethylthiourea may be added to chlor-N-alkylate-3-hydroxipyridine.

ASSOCIATION: none

Card 1/2

CHUMAKOV, Yu.I.; OLEYNIK, V.S.; LEDOVSKIKH, V.M.

2-Methyl-6-ethylpyridine. Metod. poluch. khim. reak. i prepar. no.11:77-79 '64. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted April, 1964.

CHUMAKOV, Yu.I.; LEDOVSKIKH, V.M.

Prototropic reaction of isomeric alkylpyridines with compounds containing conjugated double bonds. Ukr.khim.zhur. 31 no.5:506-513 '65. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted May 30, 1964.

CHUMAKOV, Yu.I.; LEDOVSKIKH, V.M.

Prototropic reaction of isomeric alkylpyridines with compounds containing conjugated double bonds. Ukr.khim.zhur. 31 no.5:506-513 '65. (MIRA 18:12)

1. Kiyevskiy politekhnicheskiy institut. Submitted May 30, 1964.

L 43764-66 EWT(m)/T/EWP(j) IJP(c) WW/RM

ACC NR: AP6029929 SOURCE CODE: UR/0413/66/000/015/0090/0090

INVENTOR: Chumakov, Yu. I.; Stolyarov, Z. Ye.; Shapovalova, Yu. P.; Novikova, V. F. 45

ORG: none

TITLE: Preparative method for a [semiconducting] polymer. Class 39, No. 184455

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 90

TOPIC TAGS: organic semiconductor, semiconducting polymer

ABSTRACT: An Author Certificate has been issued for a preparative method for a semiconducting polymer, involving homopolycondensation of 2-methyl-6-pyridinaldehyde under pressure [unspecified] in the presence of acetic anhydride or zinc chloride at 200C. [SM]

SUB CODE: 07, 11/ SUBM DATE: 16Nov64/ ATD Press: 5048

Card 1/1 UDC: 678.6:547.824

CHUMAKOV, Yu.L., insh.

Silicalcite highway buildings. Avt. dor. 23 no.5:14 My'60. (MIRA 13:10)
(Building materials) (Transportation--Buildings and structures)

CHUMAKOV, Yu.L., inzh.

Real-life designing in the Rostov technical road school. Avt. dor. 24 no.10:24 O '61. (MIRA 14:11)
(Rostov-on-Don--Road construction--Study and teaching)

CHUMAKOV, Yuriy Leonidovich; YEREMEYEV, K.V., red.; DEBERDEYEV, B.S., red.izd-va; GORYACHKINA, R.A., tekhn. red.

[Concrete work] Betonnye raboty. Moskva, Avtotransizdat, 1963. 58 p. (MIRA 16:10)
(Bridges, Concrete)

CHUMAKOV, Yu.M.; SKUBARENKO, N.N.

Large air-entrained concrete elements made with a mixed binder. Stroi. mat. 9 no.2:19-22 F '63. (MIRA 16:2)

1. Direktor Luganskogo kombinata yacheistobetonnykh konstruktsiy (for Chumakov). 2. Glavnyy tekhnolog Luganskogo kombinata yacheistobetonnykh konstruktsiy (for Skubarenko).
(Air-entrained concrete)

CHUMAKOV, Yu.M.; SKUBARENKO, N.N.

Practice of preparing gas lime at the Lugansk Plant for cellular concrete elements. Stroi. mat. 10 no.6:10-11 Je '64. (MIRA 17:10)

1. Direktor Luganskogo kombinata yacheistobetonnykh konstruktsii (for Chumakov). 2. Glavnyy tekhnolog Luganskogo kombinata yacheistobetonnykh konstruktsii (for Skubarenko).

NECHAYEV, Avenir Sergeyevich; DEGTYAREV, Lev Mikhaylovich; IVANOV, Vasiliy Alekseyevich; CHUMAKOV, Yuriy Viktorovich; SVET, Ye.B., red.; KOLBICHEV, V.I., tekhn. red.

[Mill for the production of spirally welded tubes]Stan dlia proizvodstva spiral'no-svarnykh trub. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1961. 50 p. (MIRA 15:12)
(Tubes--Welding) (Welding--Equipment and supplies)

TEN, M.P., kand. veterin. nauk; CHUNAYEV, Yu.V., nauchnyy sotrudnik

Methods for using lapinized dry virus vaccine against hog cholera. Veterinariia 38 no.11:45-46 N '61 (MIRA 18:1)

1. Dal'nevostochnyy nauchno-issledovatel'skiy veterinarnyy institut.

CHUMAKOV- KUZNETSOV, S.I.

AID P - 1964

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 13/25

Author : Chumakov-Kuznetsov, S. I., Eng.

Title : Exposing the defects of crankgear bolts of an internal combustion engine

Periodical : Energetik, 4, 25, Ap 1955

Title : The author describes the device used to detect cracks on the surfaces of bolts, which consists of a rod with two movable pole shoes. A coil of 2 to 4 sq mm copper wire is wound on the rod. The device is used to magnitize the tested bolts which are covered with a magnetic suspension. Defects are easily detected. One drawing.

Institution: None

Submitted : No date

CHUMAKOV-KUZNETSOV, S.I.

On the size of bearing clearance for internal combustion engines.
Energ.biul. no.10:17-19 O '57. (MIRA 10:10)
(Gas and oil engines)

AUTHOR: Chumakov-Kuznetsov, S.I., Engineer 91-58-6-17/39

TITLE: A Device for Making Copper Wire Sealing Gaskets (Prisposobleniye dlya izgotovleniya uplotnitel'nykh prokladok iz mednoy provoloki)

PERIODICAL: Energetik, 1958, Nr 6, p 19 (USSR)

ABSTRACT: A device is described for making copper wire sealing gaskets for internal combustion engines type 38-K-8. Two metal disks on a spindle are employed. On the lower one copper wire is tightly wound. The two disks are joined by a catch and rotated together by means of a lever. The lower disk is then secured while the upper remains free. In this way it is possible to solder the wire coils at equal intervals. There is one figure.

AVAILABLE: Library of Congress

Card 1/1 1. Tools-Design 2. Tools-Characteristics

CHUMAKOVA, B. M.

"Induced Changes in the Temperature Requirements of Warmth-Loving Insects (Crypto Lacmus Montrourieri, Muls.)" (p. 252) by Chumakova, B. M.

SO: Journal of General Biology XII (Zhurnal Obshchei Biologii) Vol. XII, No. 4, 1951.

CHUMAKOVA, B.M.

Biology of oyster shell scales (Homoptera, Coccidae) in the Maritime Territory. Ent.oboz. 33:84-89 '53. (MLRA 7:5)

1. Vsesoyuznyy Institut zashchity rasteniy Akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina, Leningrad.
(Maritime Territory--Scale insects) (Scale insects--Maritime Territory)

CHUMAKOVA, B.M.

Some Hymenoptera (Chalcidoidea and Serphoidea) parasites of scale insects in the Maritime Territory. Ent.oboz.35 no.1:109-119 '56. (MLRA 9:10)

1.Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Maritime territory--Chalcid flies)(Maritime territory--Wasps)
(Parasites--Scale insects)

CHUMAKOVA, B.M.

USSR/General and Special Zoology. Insects P-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 68920

Author : Chumakova B.I.
Inst : ..
Title : Comperiella bifasciata How. (Hymenoptera, Encyrtidae) as a Parasite of Shield Lice in the USSR.

Orig Pub : Entomol. obozreniye, 1957, 36, No 3, 643-651

Abstract : The C. bifasciata parasite -- an entomophage of great significance in the USA -- is widely distributed in the USSR, at the present time being found in the Primorskiy Kray, the Ukraine, and in many parts of the Black Sea coast. It was originally described in China as a parasite of the Chrysomphalus aurantii shield louse; in the USA it is theprincipal natural enemy of the yellow and bitter-orange shield lice; in the USSR it develops

Card : 1/3

Abs Jour : Ref Zhur - Biol., No 15, 1956, No 68920

on poplar and pine shield lice. Comperiella forms which are morphologically indistinguishable have quite different biologies. The Chinese Comperiella develops well on the red bitter-orange shield louse, and its female produces about 50 eggs; the Japanese form of this parasite does not develop on the red bitter-orange shield louse, and its female produces only about two eggs; in Japan its normal host is Aonidiella taxus. The Comperiella form from India infects the yellow bitter-orange shield louse in citruses but does not develop on the red one. Even in one country forms of this parasite will develop with specialized feeding habits on different hosts from different nutritive plants. The Japanese form of Comperiella from the Ch. bifasciulatus shield louse, which lives on the aspidistra, infects only this shield louse on its nutritive plant and does ent infect

USSR/General and Special Zoology. Insects P-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 68920

the red bitter-orange shield louse in California. The large number of unsuccessful attempts to introduce and acclimatize Comperiella has resulted from the failure to place appropriate emphasis on the parasite's nutritive specialization. A classification key is given for the species of the Comperiella genus; structural details of C. bifasciata are described and depicted. -- I.A. Rubtsov

Card : 3/3

USSR/General and Special Zoology. Insects P-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 68921

Author : Churakova B.I.
Inst : Vsesoyuznyy institut zashchity rasteniy, Leningrad.
Title : Parasites of the Oyster-Shell Scale in Primorskiy Kray

Orig Pub : Zool. zh., 1957, 36, No 4, 533-547

Abstract : The Primorskiy Kray lies within the natural habitat of the San Jose scale and its specialized parasite, Prospaltella perniciosi. A detailed description of the latter is given. Based on an analysis of a number of characteristics, the identity of the far-eastern, American, and caucasian forms of this species has been proven. A description is also given of the other important parasite of the San Jose scale in the Primor'ye -- Suussuria pallipes gen et sp. n. On the poplar shield louse, Diaspidiotus gigas, the following

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Abs Jour : Ref Zhur - Biol., No 15, 1958, No 68921

principal parasites were found: P. gigas sp. n., Aspidiotiphagus citrinus, and Comperiella bi-fasciata. Pr. gigas, Pt. longicornis, Aph. diaspidioti, and Azotus sp. were isolated on the oyster-shell scale, D. ostreaeformis; together they infect a maximum of 30% of the pests. Pr. gigas and Pt. longicornis are suitable for importation into European Russia, and also Pr. perniciosi, which, unlike the caucasian form, has ♂♂ and evidently develops monoeciously. -- G.... Viktorov

Card : 2/2

CHUMAKOVA, B.M.

Parasites of Phytometra gamma L. in Leningrad Province and their significance for reducing the numbers of the pest [with summary in English]. Ent. obos. 37 no. 3:597-602 '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina., Leningrad.

(Leningrad Province--Parasitica)
(Leningrad Province--Tachinid flies)
(Parasites--Moths)

CHUMAKOVA, B.M., kand.sel'skokhozyaystvennykh nauk

Supplementary feeding as a factor increasing the effectiveness of parasites in injurious insects. Trudy VIZR no.15:57-70 '60. (MIRA 14:3)

(Kabardino-Balkar A.S.R.—San José scale—Biological control)
(Chalcid flies)

CHUMAKOVA, B.M.

Parasites of injurious coccids in the Kabardino-Balkar A.S.S.R (Hymenoptera, Chalcidoidea). Ent. oboz. 40 no.2:315-338 '61. (MIRA 14:6)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Kabardino-Balkar A.S.S.R.—Chalcid flies)
(Parasites--Scale insects)

CHUMAKOVA, B.M.

Session of the scientific Council of the All-Union Institute of Plant Protection. Zashch.rast.ot vred.i bol. 7 no.6:58-59 Je '62. (MIRA 15:12)

(Plants, Protection of)

CHUMAKOVA, B.M.; GORYUNOVA, Z.S.

Development of the males of Prospaltella perniciosi Tow. (Hymenoptera, Aphelinidae), parasite of the San Jose scale (Homoptera, Coccoidea). Ent. oboz. 42 no.2:320-328 '63. (MIRA 16:8)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Maritime Territory--Parasites--San Jose scale)
(Maritime Territory--Chalcid flies) (Insects--Development)

CHUMAKOVA, B.M.

Californian armored scale Diaspidiotus perniciosus Comst.(Coccoidea, Diaspididae) and its parasites in the Far East. Ent. oboz. 43 no.3: 535-552 '64. (MIRA 17:10)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.

CHUMAKOVA, B. M.

"Experimental investigation of the change of sex in parasitic hymenoptera."

report submitted for 12th Intl Cong of Entomology, London, 8-16 Jul 64.

CHUMAKOVA, B.M.

Role of the parasite Aspidiotiphagus citrinus (Crwf.) (Hymenoptera, Aphelinidae) in lowering the population of injurious scale insects in the subtropical regions of the R.S.F.S.R. Ent. oboz. 44 no.3: 520-526 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy, Leningrad.

SHCHEPETIL'NIKOVA, V.A.; CHUMAKOVA, B.M.

Current problems of the acclimatization of entomophagous insects in the U.S.S.R. Trudy VIZR no. 21 pt. 1:5-13 '64. (MIRA 18:12)

CHUMAKOVA, B.M.

Survey of the species of the family Aphelinidae (Hymenoptera), parasites of coccids harmful to tree plantations on the Black Sea coast of the R.S.F.S.R. Trudy VIZR no. 21 pt. 1:14-39 '64. (MIRA 18:12)

PRAVDIN, Nikolay Sergeyevich, prof., red. [deceased]; CHUMAKOVA, G., red.; LAVRENT'YEVA, G., tekhn. red.

[Problems in industrial toxicology] Voprosy promyshlennoi toksikologii. Pod red. N.S.Pravdina. Moskva, 1960. 250 p. (MIRA 15:2)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut gigiyeny truda i profzabolevaniy.

(Industrial toxicology)

PALKIN, A.P.; CHUMAKOVA, G.G.

Interaction in the system $PbCl_2$ $PbBr_2$ 4Tl → 2TlCl + 2TlBr + 2 Pb. Zhur.neorg.khim. 6 no.5:1172-1177 My '61.
(MIRA 14:4)

(Systems (Chemistry)) (Displacement reactions)

L 17693-63 EWT(1)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3/APGC Pi-4 RB/JD

ACCESSION NR: AP3005590 S/0049/63/000/008/1278/1284

70

AUTHOR: Vernidub, I. I.; Zhikharev, A. S.; Medaliyev, Kh. Kh.; Pravdun, N. S.; Sulakvelidze, G. K.; Chumakova, G. G.

TITLE: Ice-forming properties of lead iodide aerosols produced by combustion of metallo-iodide compounds

SOURCE: AN SSSR. Izv. Ser. geofizicheskaya, no. 8, 1963, 1278-1284

TOPIC TAGS: aerosol, ammonium iodide, lead iodide, fog, supercooled fog, aqueous fog, cloud chamber, ice crystal

ABSTRACT: The crystallizing effect of PbI_2 aerosols on a supercooled aqueous fog in a cloud chamber has been investigated. The aerosols were produced by the combustion of lead powder and iodine-containing substances (crystalline I, NH_4I, CHI_3, and $O{=}C_6I_4{=}O$). The quantity of ice crystals produced at a fog temperature of -10C is dependent on the material used and ranges from 2.3×10^{11} to 5×10^{12} crystals per gram. An aerosol produced from an NH_4I aerosol is as effective as a pure PbI_2 aerosol obtained by the sublimation of lead iodide in an electric arc. The ice-forming capability of PbI_2 aerosols produced by the combustion of metallo-iodide

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L 17693-63

ACCESSION NR: AP3005590

materials increases with a temperature decrease of the aqueous fog. Aerosols of all the investigated metallo-iodide materials are highly monodispersive: between 53 and 71% of the particles are 0.05—0.15 μ in diameter. The predominant fraction of particles in an aerosol is dependent on the iodide-containing substance used. Orig. art. has: 2 figures, 2 tables, and 2 formulas.

ASSOCIATION: none

SUBMITTED: 18Dec61 DATE ACQ: 06Sep63 ENCL: 00

SUB CODE: AS NO REF SOV: 002 OTHER: 003

Card 2/2

VERNIDUB, I.I.; ZHIKHAREV, A.S.; MEDALIYEV, Kh.Kh.; PRAVDUN, N.S.; SULAKVELIDZE, G.K.; CHUMAKOVA, G.G.

Study of the ice-forming ability of aerosols of lead iodide. Izv. AN SSSR. Ser. geofiz. no.9:1286-1293 S '62. (MIRA 15:8)

1. Vysokogornyy geofizicheskiy institut AN SSSR.
(Weather control) (Lead iodide)

L 18103-63 EWP(q)/EWT(m)/BDS AFFTC/ASD Pad JD/HW

ACCESSION NR: AP3002844 S/0126/63/015/006/0860/0866

AUTHORS: Chumakova, L. D.; Bogachev, I. N.; Shklyar, R. Sh; Mints, R. I.

TITLE: Phasal and structural changes in the surface layer of austenite alloys at the initial stage of the cavitation effect

SOURCE: Fizika metallov i metallovedeniye, v. 15, no. 6, 1963, 860-866

TOPIC TAGS: cavitation effect, austenite alloy , Ni, Mn, phasal change., structural change

ABSTRACT: Structural changes in the surface layer of austenitic Ni and Mn alloys subjected to minute impacts were studied by x-rays. It was established that the cavitation effect results in the increase of submicroscopic nonhomogeneity of intragranular structure and in a partial decomposition of austenite. Depending on their chemical composition, the manganese samples showed a partial decomposition of austenite and the formation of ε-phase or of ε-phase and martensite. The Ni samples showed decomposition of a small amount of austenite and the formation of martensite. The conversions $\gamma \rightleftarrows \varepsilon$ in the G30 alloy and $\gamma \rightleftarrows \varepsilon \rightarrow \alpha$

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L 18103-63
ACCESSION NR: AP3002844

in the 40G14 steel harden the alloys and increase their resistance to cavitational destruction. The high resistance of the stable manganese austenite 40G30 to the impacts proves that phasal transformations are not the only factors determining the high stability of alloys with respect to the cavitation effect. Orig. art. has: 1 table, 3 graphs, and 2 photographs.

ASSOCIATION: Ural'skiy politeknicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute)

SUBMITTED: 31Oct62 DATE ACQ: 23Jul63 ENCL: 00

SUB CODE: ML NO REF SOV: 005 OTHER: 001

Card 2/2

CHUMAKOVA, L. I.

Chumakova, L. I. "Treatment of impetigo with a 10 percent solution of iodsulfidine," Trudy Medinstituta (Izhev. gos, med. in-t), Vol. VII, 1949, p. 268-71

SO: U-3850, 16 June 53, (Letopsis 'Zhurnal 'nykh Statey, No. 5, 1949)

NIKOL'SKIY, V.V.; NEKOVALEVA, N.A.; CHUMAKOVA, L.M.

Effect of ionizing radiation on the lipid composition of the blood and liver in rats. Ukr.biokhim.zhur. 31 no.6:877-882 '59.
(MIRA 13:5)

1. Department of Biochemistry and Department of Roentgenology and Radiology of the Rostov-na-Donu Medical Institute.

(LIPIDS) (RADIATION--PHYSIOLOGICAL EFFECT)

NIKOL'SKIY, V.V.; NEKOVALEVA, N.A.; CHUMAKOVA, L.M.

Dynamics of unsaturated fatty acids of the blood in patients subjected to radiotherapy. Med. rad. 5 no.12:13-17 '60. (MIRA 14:3)

(FATTY ACIDS) (RADIATION--PHYSIOLOGICAL EFFECT)